CLAIMS

What is claimed is:

1       1.      A method comprising:

2       establishing a file transfer session between an information transferring network

3   device that has entered a debug mode and a server, a name of a last known good image

4   and configuration file pair being stored on the network device, the last known good

5   image and configuration file pair being stored on the server; and

6       requesting a transfer of the last known good image and configuration file pair

7   from the server to the network device.


1       2.      The method of claim 1 further comprising detecting the network device

2   in fatal mode and entering the debug mode on the network device upon detecting the

3   network device in fatal mode.


1       3.      The method of claim 1 further comprising receiving a command of a user

2   and entering the debug mode on the network device upon receiving the command of the

3   user.


1       4.      The method of claim 1 wherein the file transfer session is a Trivial File

2   Transfer Protocol (TFTP) session.

1      5.     The method of claim 1 further comprising receiving the transfer of the

2 last known good image and configuration file pair from the server to the network

3 device.

1      6.     The method of claim 5 further comprising automatically restoring the

2 network device from debug mode to working mode after receiving the transfer of the

3 last known good image and configuration file pair from the server to the network

4 device.

1      7.     The method of claim 1 wherein establishing a file transfer session

2 between an information transferring network device that has entered a debug mode and

3 a server includes

4        establishing a first file transfer session with a first server, a first image and

5 configuration file pair being stored on the first server,

6        determining whether the first image and configuration file pair is the last known

7 good image and configuration file pair,

8        establishing a second file transfer session with a second server, a second image

9 and configuration file pair being stored on the second server,

10       determining whether the second image and configuration file pair is the last

11 known good image and configuration file pair, and

12       wherein the method further includes requesting a transfer of one of the first or

13 second image and configuration file pair that is the last known good image and

14 configuration file pair from the server to the network device.

15

1    8.    A method comprising:

2        detecting that an information transferring network device has entered a debug

3    mode, a name of a last known good image and configuration file pair being stored on

4    the network device;

5        establishing a first file transfer session between the network device and a first

6    server, a first image and configuration file pair being stored on the first server;

7        determining whether the first image and configuration file pair is the last known

8    good image and configuration file pair;

9        establishing a second file transfer session between the network device and a

10   second server, a second image and configuration file pair being stored on the second

11   server;

12       determining whether the second image and configuration file pair is the last

13   known good image and configuration file pair; and

14       requesting a transfer of one of the first or second image and configuration file

15   pair that is the last known good image and configuration file pair from the server to the

16   network device.


1    9.    The method of claim 8 further comprising detecting the network device

2    in fatal mode and entering the debug mode on the network device upon detecting the

3    network device in fatal mode.


1    10.    The method of claim 8 further comprising receiving a command of a user

2    and entering the debug mode on the network device upon receiving the command of the

3    user.

1          11.      The method of claim 8 wherein the file transfer session is a Trivial File

2     Transfer Protocol (TFTP) session.


1          12.      The method of claim 8 further comprising receiving the transfer of the

2     last known good image and configuration file pair from the server to the network

3     device.


1          13.      The method of claim 12 further comprising automatically restoring the

2     network device from debug mode to working mode after receiving the transfer of the

3     last known good image and configuration file pair from the server to the network

4     device.


1          14.      An apparatus comprising a machine accessible medium containing

2     instructions which, when executed by a machine, cause the machine to perform

3     operations comprising:

4          establishing a file transfer session between an information transferring network

5     device that has entered a debug mode and a server, a name of a last known good image

6     and configuration file pair being stored on the network device, the last known good

7     image and configuration file pair being stored on the server; and

8          requesting a transfer of the last known good image and configuration file pair

9     from the server to the network device.

1    15.    The apparatus of claim 14 further comprising detecting the network

2    device in fatal mode and entering the debug mode on the network device upon detecting

3    the network device in fatal mode.


1    16.    The apparatus of claim 14 further comprising receiving a command of a

2    user and entering the debug mode on the network device upon receiving the command

3    of the user.


1    17.    The apparatus of claim 14 wherein the file transfer session is a Trivial

2    File Transfer Protocol (TFTP) session.

1

1    18.    The apparatus of claim 14 further comprising receiving the transfer of the

2    last known good image and configuration file pair from the server to the network

3    device.


1    19.    The apparatus of claim 18 further comprising automatically restoring the

2    network device from debug mode to working mode after receiving the transfer of the

3    last known good image and configuration file pair from the server to the network

4    device.


1    20.    The apparatus of claim 14 wherein establishing a file transfer session

2    between an information transferring network device that has entered a debug mode and

3    a server includes

4       establishing a first file transfer session with a first server, a first image and

5    configuration file pair being stored on the first server,

6       determining whether the first image and configuration file pair is the last known

7    good image and configuration file pair,

8       establishing a second file transfer session with a second server, a second image

9    and configuration file pair being stored on the second server,

10       determining whether the second image and configuration file pair is the last

11    known good image and configuration file pair, and

12       wherein the method further includes requesting a transfer of one of the first or

13    second image and configuration file pair that is the last known good image and

14    configuration file pair from the server to the network device.


1       21.    An apparatus comprising a machine accessible medium containing

2    instructions which, when executed by a machine, cause the machine to perform

3    operations comprising:

4       detecting that an information transferring network device has entered a debug

5    mode, a name of a last known good image and configuration file pair being stored on

6    the network device;

7       establishing a first file transfer session between the network device and a first

8    server, a first image and configuration file pair being stored on the first server;

9       determining whether the first image and configuration file pair is the last known

10    good image and configuration file pair;

11          establishing a second file transfer session between the network device and a

12    second server, a second image and configuration file pair being stored on the second

13    server;

14          determining whether the second image and configuration file pair is the last

15    known good image and configuration file pair; and

16          requesting a transfer of one of the first or second image and configuration file

17    pair that is the last known good image and configuration file pair from the server to the

18    network device.


1      22.    The apparatus of claim 21 further comprising detecting the network

2    device in fatal mode and entering the debug mode on the network device upon detecting

3    the network device in fatal mode.


1      23.    The apparatus of claim 21 further comprising receiving a command of a

2    user and entering the debug mode on the network device upon receiving the command

3    of the user.


1      24.    The apparatus of claim 21 wherein the file transfer session is a Trivial

2    File Transfer Protocol (TFTP) session.


1      25.    The apparatus of claim 21 further comprising receiving the transfer of the

2    last known good image and configuration file pair from the server to the network

3    device.

1      26.    The apparatus of claim 25 further comprising automatically restoring the

2    network device from debug mode to working mode after receiving the transfer of the

3    last known good image and configuration file pair from the server to the network

4    device.

1